

Title (en)  
Capless fuel tank filler assembly

Title (de)  
Anordnung für einen deckellosen Einfüllstutzen eines Kraftstofftanks

Title (fr)  
Dispositif de tubulure de remplissage d'un réservoir de carburant sans bouchon

Publication  
**EP 1065086 A2 20010103 (EN)**

Application  
**EP 00112991 A 20000621**

Priority  
US 34523299 A 19990630

Abstract (en)  
A capless fuel filler neck (10) has an annular resilient seal (20) which seals over a fuel nozzle (22) upon insertion in the filler tube. Further insertion of the nozzle opens a flapper (32) biased against a rim flange (30) on the lower end of annular seal. Movement of the flapper by the nozzle also moves an auxiliary seal (88') on the flapper and which opens separate venting passages (70') disposed externally of the nozzle tube. Upon removal of the nozzle from the filler tube, the flapper closes against the rim flange to seal the filler tube; and, the auxiliary seals close and seal the vent tubes. The vent tubes serve to prevent spray-back of fuel when the nozzle opens the flapper in a tank with pressurized vapor and fuel trapped in the filler tube and to provide an air inlet path to accommodate the aspiration of the refueling nozzle. <IMAGE>

IPC 1-7  
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IPC 8 full level  
**B60K 15/04** (2006.01); **F02M 37/00** (2006.01)

CPC (source: EP KR US)  
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Cited by  
US7306017B2; WO2006077491A1; WO2016060984A1; US9376012B2; US9862266B2

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